



GRADE 3 / WATCH MR DJ SOLVE

MEASURING AREA BY COUNTING

Start with the same example used in the lesson slides.



WATCH MR DJ SOLVE

Draw 2 rows of 4 squares. Each square is 1 square cm. Count the area.

- 1 Each row covers 4 square cm.
- 2 Count 2 equal rows.
- 3 Total 8 square cm.

Answer: **8 square cm**



REMEMBER measure area by counting every unit square and naming the squared unit.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.



GRADE 3 / WORKED METHODS

MEASURING AREA BY COUNTING

Read a complete example before trying the matching method.

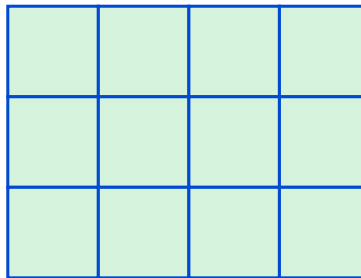


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Count rows

3 rows of 4 unit squares = 12 square units

1. Count four squares in each row.
2. Add $4+4+4$.
3. All 12 squares contribute to the area.



$$4+4+4 = 12 \text{ square units}$$



GRADE 3 / WORKED METHODS

MEASURING AREA BY COUNTING

Read a complete example before trying the matching method.

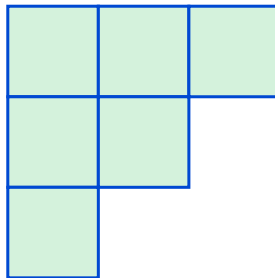


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

An irregular tiled region

Rows of 3,2,1 cover 6 square units

1. Count 3 in the top row.
2. Count 2 then 1 in the next rows.
3. $3+2+1=6$ square units.



$$3+2+1 = 6 \text{ square units}$$



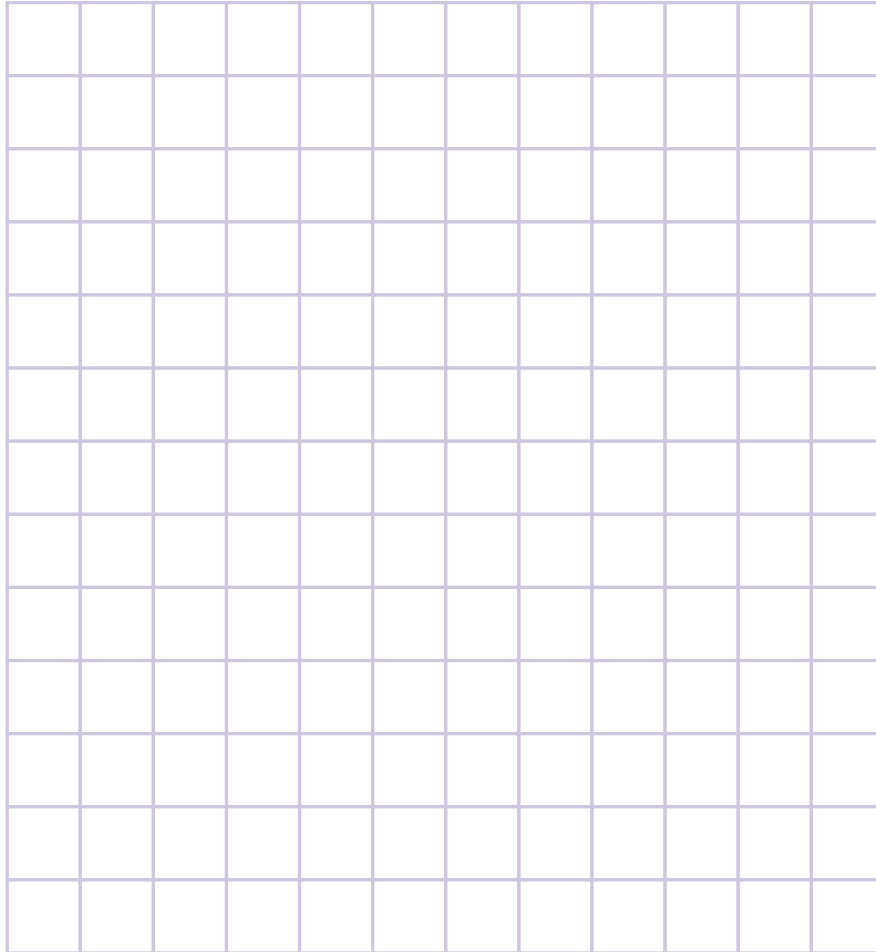
GRADE 3 / MATHEMATICAL WORK TOOL

MEASURING AREA BY COUNTING

Use labels and a clear scale.



Draw and label a model. Choose what one unit square means.





GRADE 3 / PRACTICE

MEASURING AREA BY COUNTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔪 Mild

1. A tiled shape has rows of 4, 3 and 2 unit squares. Count its area.

My answer / conclusion: _____

🔪 Mild

2. A region contains 10 tiles, each 1 square inch. Find its area.

My answer / conclusion: _____



GRADE 3 / PRACTICE

MEASURING AREA BY COUNTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

3. Draw a 2-by-4 tiled rectangle. Remove one corner tile. Count the remaining area.

My answer / conclusion: _____



GRADE 3 / PRACTICE

MEASURING AREA BY COUNTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

4. Group 8 unit squares into equal rows in two ways. Count both areas.

My answer / conclusion: _____



GRADE 3 / PRACTICE

MEASURING AREA BY COUNTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

5. One region has 2 rows of 4 unit squares. Another has 3 rows of 3. Compare areas.

My answer / conclusion: _____



GRADE 3 / PRACTICE

MEASURING AREA BY COUNTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🌶️🌶️🌶️ Spicy

6. Digit counts only the outside tiles of a 3-by-5 rectangle. Explain what could be missed.

My answer / conclusion: _____



Date _____

MEASURING AREA BY COUNTING

A cartoon fox mascot with orange fur, large eyes, and a purple collar, holding a yellow pencil.

Spicy 7. Explain why counting 2 rows of 4 squares and counting 4 columns of 2 give the same area.

My answer / conclusion: _____



GRADE 3 / PRACTICE

MEASURING AREA BY COUNTING

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Extra Spicy

8. Design a shape of 8 square units with at least one corner missing from its bounding rectangle. Explain your count.

My answer / conclusion: _____